

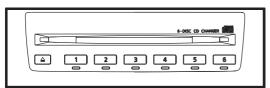
#### Clarion Co., Ltd.

50 Kamitoda, Toda-shi, Saitama 335-8511 Japan Service Dept.: 5-66 Azuma , Kitamoto-shi, Saitama 364-0007 Japan Tel: +81-48-541-2335 / 2432 FAX: +81-48-541-2703 Published by Service Dept. 298-6053-00 Feb.2003B Printed in Japan

# Service Manual



PP-2538T



PN-2541K

NISSAN Automobile Genuine 6-Disc CD Changer Deck

Model PP-2538T

(Genuine No.28184 4M560

/ID No.CE030)

Model PN-2541K

(Genuine No.28184 AR260)

#### **SPECIFICATIONS**

Output level: 3.0V +2/-2dB(at 1kHz) Frequency Response: 17Hz to 20kHz +2/-2dB

Separation: More than 70dB

(at 1kHz, Filter:20kHz LPF)

Distortion: Less than 0.02%

(at 1kHz, Filter:20kHz LPF)

Power supply voltage: DC13.2V

Negative ground

Current consumption: 0.6A(during playing)
Dimensions(mm): 184(W) x56(H) x197.5(D)

Weight: 1.65kg

#### **COMPONENTS**

PN-2541K-A/PP-2538T-A

Main unit -----

#### NOTE

- \* Specifications and design are subject to change without notice for further improvement.
- \* We cannot supply PWB with component parts in principle.

When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

# To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury. 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force

- Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
- 8. Cautions in checking that the optical pickup lights up. The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
- 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

#### **EXPLANATION OF IC**

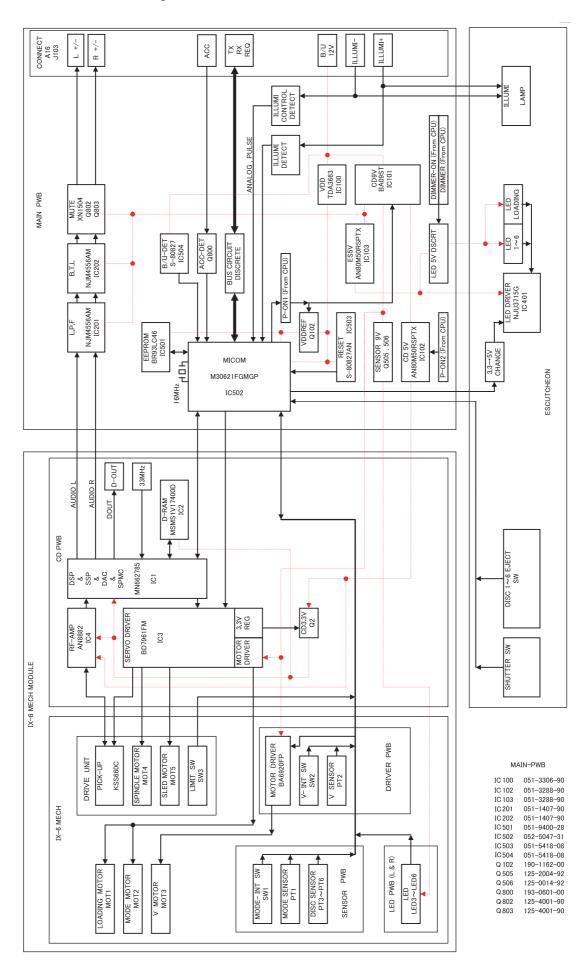
052-5047-31 M30621MCM-5P5GP

6 CD Auto changer Controller

1 Terminal Description pin 1: SQCK : O : CD DSP SQCK. pin 2: DIMMER : O: The diminution pulse output to the illumipin 3: ILL PULSE : IN: Illumination control signal input. pin 4: TCLK : O : The test clock output. pin 5: NU : - : Not in use. pin 6: CONNECT G : -: Connect to the ground. : O : Load command output to CD-IC. pin 7: M LD O pin 8: NU : - : Not in use. pin 9: RESET :IN: Reset signal input. pin 10: X OUT : O: Crystal connection. pin 11: GND : - : Ground. pin 12: X IN : IN: Crystal connection. pin 13: VDD : - : Positive supply voltage.

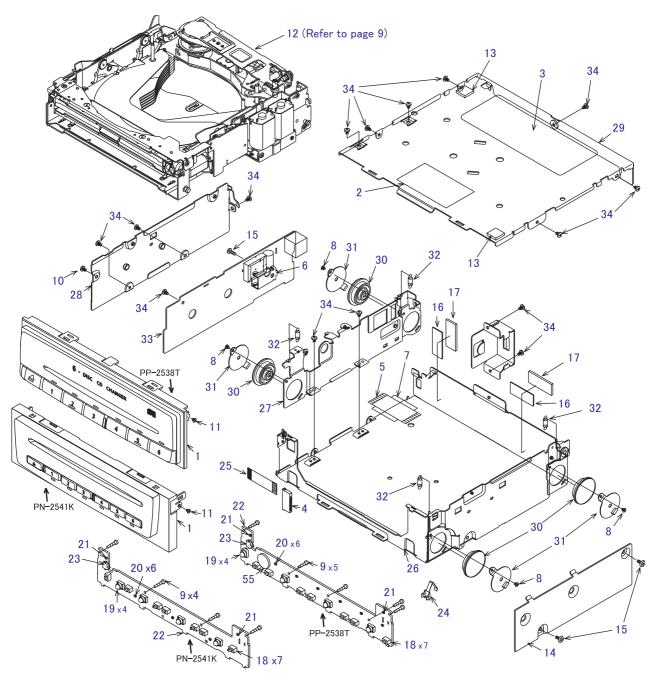
pin 14: CONNECT VDD: -: Connect to the VDD. pin 15: BLKCK :IN: The sub code block clock input. pin 16: ACC DET :IN: ACC detection signal input. pin 17: BU DET :IN: Backup detection signal input. pin 18: SW 9V : O: 9V power supply control. pin 19: BEEP : O : Beep out. : O: Transmit request signal output. pin 20: REQ O pin 21: ILL CNT : O: The illumination control. pin 22: T DATA : O: The display data output for the test mode indication. pin 23: PON 2 : O : Power ON signal output. pin 24: TX : O : Serial data output of N-BUS. pin 25: RX :IN: Serial data input of N-BUS. pin 26: NU : - : Not in use. pin 27: A MUTE : O: The audio mute signal output. pin 28: M DATA : O: The command data output to the CD IC. pin 29: STAT :IN: The status data input from the CD IC. pin 30: M CLK : O: The clock puse output to the CD IC. pin 31: LIMIT :IN: Sled limit switch signal input. pin 32: SW 1 :IN: The switch signal input. pin 33: SW 2 :IN: The switch signal input. pin 34: EPM :IN: Pull down. pin 35: P ON 1 : O : Power ON signal output. pin 36: PT 2 :IN: The photo sensor signal input. pin 37: PT 5 :IN: The photo sensor signal input. pin 38: PT 4 :IN: The photo sensor signal input. pin 39: PT 3 :IN: The photo sensor signal input. pin 40: PT 6 :IN: The photo sensor signal input. pin 41: PT 1 :IN: The photo sensor signal input. pin 42: M 3 CCW : O : The motor drive signal output. pin 43: M 3 CW : O: The motor drive signal output. pin 44: M 2 CCW : O: The motor drive signal output. : O: The motor drive signal output. pin 45: M 2 CW pin 46: M 1 CCW : O : The motor drive signal output. pin 47: M 1 CW : O: The motor drive signal output. pin 48: RST OUT : O: The reset pulse output. pin 49: D MUTE : O : Digital mute signal output. pin 50: HSSW1 : O: The test terminal. pin 51: ILL :IN: Illumination ON signal input. pin 52: TEST 4 :IN: For the test. pin 53: TEST 3 :IN: For the test. pin 54: TEST 2 :IN: For the test. pin 55: TEST 1 :IN: For the test. pin 56: EEP DI :IN: The serial data input from EEP-ROM. : O: The serial data output to EEP-ROM. pin 57: EEP DO pin 58: EEP CLK : O: The clock pulse output to EEP-ROM. pin 59: EEP CE : O: The chip enable pulse output to EEP-ROM. pin 60: Destination 1 :IN: The destination setting signal input. pin 61: Destination 2 :IN: The destination setting signal input. : O : The clear signal output for the test mode pin 62: T CLR pin 63: LED CLK : O: The clock pulse output to LED driver. pin 64: LED STB : O: The strobe pulse output to LED driver. pin 65: LED CLR : O: The clear pulse output to LED driver. pin 66: LED DATA : O: The serial data output to LED driver. pin 67: ILL ON : O: The illumination ON signal output. pin 68: K IN 0 :IN: The key scan intput terminal. pin 69: K IN 1 :IN: The key scan intput terminal. :IN: The key scan intput terminal. pin 70: K IN 2 pin 71: K IN 3 :IN: The key scan intput terminal. pin 72: K OUT 0 : O: The key scan output terminal. pin 73: K OUT 1 : O: The key scan output terminal. pin 74: SHUT :IN: The shutter signal input. pin 75: GND : - : Ground. :IN: The analog voltage input for illumination pin 76: ILL AD signal. pin 77: VDD REF : - : VDD reference voltage. pin 78: VDD : - : Positive supply voltage. pin 79: SUB Q :IN: Sub Q data input from the CD IC. pin 80: NU : - : Not in use.

#### Main/Escutcheon/CD changer module section



# **EXPLODED VIEW/PARTS LIST**

Main section



Note) Some parts depend on each model. The model name is specified in the description. (38T):PP-2538T, (41K):PN-2541K

NO.	PART NO.	DESCRIPTION	Q'TY
1	940-8014-01 940-8015-01	ESCUTCHEON ASSY(38T) ESCUTCHEON ASSY(41K)	1
2	285-1328-00	GUIDE LABEL(38T)	1
3	286-9086-24 286-9086-25	SETPLATE(38T) SETPLATE(41K)	1
4	074-1239-76	26P OUTLET SOCKET	1
5	039-1957-01	FPC	1
6	331-3267-00	TR-HOLDER	1
7	347-6619-00	INSULATOR	1
8	716-3450-00	SCREW M1.7 x2	4
9	716-0872-01 716-0872-00	PAD SCREW M1.7 x6 (38T) PAD SCREW M1.7 x6 (41K)	5 4
10	716-3462-00	SCREW M2 x5	1

NO.	PART NO.	DESCRIPTION	Q'TY
11	716-3461-00	SCREW M2 x3	1
12		CD CHANGER MODULE 018200-929	1
13	345-8239-00	CUSHION RUBBER	2
14	331-3497-00	SIDE PLATE	1
15	716-2606-81	MACHINE SCREW M2.6 x6	3
16	331-3592-00	PROTECT PLATE	2
17	345-5237-00	CUSHION RUBBER	2
18	013-6302-50	SWITCH	7
19	017-0433-69	PILOT LAMP 14V40mA	3
20	001-7045-90	DIODE CL-165D/FG	6
21	001-7043-90	DIODE CL-170FG	2

NO.	PART NO.	DESCRIPTION	Q'TY
22	039-2230-00 039-2231-00	ESCUTCHEON PWB(38T) ESCUTCHEON PWB(41K) (WITHOUT COMPONENT)	1
23	013-7415-50	DETECTOR SWITCH	1
24	331-1861-10	EARTH PLATE	1
25	816-2610-00	FLAT WIRE	1
26	311-1836-02	LOWER CASE	1
27	331-3266-02	PWB HOLDER	1
28	305-0315-05	SIDE CASE	1

r			
NO.	PART NO.	DESCRIPTION	Q'TY
29	310-1741-04	UPPER CASE	1
30	629-0083-00	DAMPER	4
31	620-1086-00	DAMPER-H-PLT	4
32	750-3491-00	FL-SPRING	4
33	039-2232-00	MAIN PWB (WITHOUT COMPONENT)	1
34	716-1716-00	SCREW M2 x3	15

# **ELECTRICAL PARTS LIST**

Main PWB section(B1)

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

	110 000000	-()		1	One of those parts is asc			T
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C101	168-1045-56	0.1 uF	D603	001-0516-90	MA111	R214	033-1031-15	1/16W 10k ohm
C102	046-1032-78		D604	001-0516-90	I	R215		1/16W 10k ohm
C104	163-1073-15		D607		UDZTE-17 33B	R216		1/16W 10k ohm
C108	184-4773-38		D608		UDZTE-17 33B	R218		1/16W 22 ohm
C109	168-1045-56		D609	001-0516-90	l I	R219		1/16W 22 ohm
C110	178-4742-78		D701		MA8039-H(41K)	R220		1/16W 22 ohm
C111	042-0560-85		D703		MA111(41K)	R221		1/16W 22 ohm
C112	163-2273-25		D801	001-2015-00	·	R223		1/16W 3.9k ohm
C113	168-1045-56		IC100	051-3306-90	I I	R224		1/16W 3.9k ohm
C114	163-1073-15		IC100	051-3300-90	l I	R225		1/16W 8.2k ohm
C114	168-1045-56		IC101		AN80M50RSPTX	R226		1/16W 8.2k ohm
C116	178-4742-78		IC102		AN80M50RSPTX	R504		1/16W 2.2k ohm
C116	178-4742-78		IC201		NJM4556AM	R505		1/16W 2.2k 01111
						1		
C118	178-3342-78		IC202		NJM4556AM	R509		1/16W 47k ohm
C119	178-1052-78		IC501		BR93LC46F-WE2	R512		1/16W 47k ohm x4
C120	178-1052-78		IC502		M30621MCM-5P5GP	R513		1/16W 100k ohm
C201	163-2263-15		IC503		S-80827ANMP-EDQ	R514	U5U-U145-53	1/16W 220k ohm x4
C202	163-2263-15		IC504		S-80827ANMP-EDQ			J
C203	045-1211-50	· ·	J101	074-1189-95	1	R515		1/16W 100k ohm
C204	045-1211-50		J102	074-1059-76	I I	R518		1/16W 100k ohm
C205	045-2201-50		J103	074-1087-12	I I	R520		1/16W 270k ohm
C206	045-2201-50		Q100		2SB1205RST	R521		1/16W 47k ohm
C207	168-1045-56		Q101	125-2004-92	I I	R522		1/16W 47k ohm x4
C209	163-1073-15		Q102	190-1162-00		R523		1/16W 470k ohm
C210	168-1045-56		Q204	125-2004-92	I I	R524		1/16W 47k ohm
C211	046-3322-58		Q505	125-2004-92	RN1402	R525		1/16W 47k ohm
C212	046-3322-58		Q506	125-0014-92	DTA114EK	R527	050-0145-50	1/16W 270 ohm x4
C213	046-6812-58	680pF	Q603	192-2712-00	2SC2712	R528	050-0145-50	1/16W 270 ohm x4
C214	046-6812-58	680pF	Q604	192-2712-00	2SC2712	R529	050-0145-50	1/16W 270 ohm x4
C215	046-1022-58	1000pF	Q605	125-0014-92	DTA114EK	R539	033-4721-15	1/16W 4.7k ohm
C216	046-1022-58	1000pF	Q606	192-2712-00	2SC2712	R540		1/16W 2.2k ohm x4
C217	163-2273-25	10V 220 uF	Q607	125-2004-92	RN1402	R601	033-5621-15	1/16W 5.6k ohm
C218	163-2273-25	10V 220 uF	Q706	125-2004-92	RN1402(41K)	R606	033-5631-15	1/16W 56k ohm
C219	163-2273-25	10V 220 uF	Q707	193-2118-00	2SD2118(41K)	R609	032-0145-54	1/2W 10 ohm
C220	163-2273-25	10V 220 uF	Q708	125-2004-92	RN1402(41K)	R610	033-2231-15	1/16W 22k ohm
C501	163-1063-35	16V10 uF	Q709	125-2004-92	RN1402(41K)	R611	033-1031-15	1/16W 10k ohm
C502	168-1045-56	0.1 uF	Q711	192-2712-00	2SC2712	R612	033-4731-15	1/16W 47k ohm
C503	168-4735-56	0.047 uF	Q712	131-1188-00	2SB1188	R613	033-1031-15	1/16W 10k ohm
C504	168-1045-56	0.1 uF	Q713	125-2004-92	RN1402	R614	033-1031-15	1/16W 10k ohm
C505	046-2232-78	0.022 uF	Q800	193-0601-00	2SD601A	R615	033-1031-15	1/16W 10k ohm
C602	172-1041-11	0.1 uF	Q801	190-1162-00	2SA1162	R616	033-1031-15	1/16W 10k ohm
C603	046-1022-58		Q802	125-4001-90	l I	R617		1/16W 47k ohm
C604	046-1022-58		Q803	125-4001-90	XN1504	R620		1/16W 56k ohm
C605	046-1022-58		R100		1/2W 10 ohm	R621		1/16W 56k ohm
C621	163-3353-65		R101	033-4711-15	1/16W 470 ohm	R740		1/2W 470 ohm(41K)
C710	168-1045-56		R102		1/16W 22k ohm	R743		1/16W 4.7k ohm
C711	163-1063-35		R103		1/8W 150 ohm			(41K)
C712		35V4.7 uF(41K)	R104		1/8W 150 ohm	R744	033-1041-15	1/16W 100k ohm
C713		35V4.7 uF(41K)	R105		1/2W 10 ohm	R745		1/16W 4.7k ohm
C800	163-1053-65		R106		1/2W 10 ohm		10	(41K)
C801	045-1011-50		R207		1/16W 6.8k ohm	R746	033-4731-15	1/16W 47k ohm
C802	046-2222-58		R208		1/16W 27k ohm	R747		1/16W 22k ohm
C803	046-2222-58	'	R209		1/16W 10k ohm	'''	10	(41K)
C804	046-2222-58		R210		1/16W 10k ohm	R748	033-4721-15	1/16W 4.7k ohm
C805	046-2222-58		R211		1/16W 6.8k ohm	11170	330 4721-13	(41K)
D100	001-0627-90		R212		1/16W 8.2k ohm	R749	033-1031-15	1/16W 10k ohm
D100	001-0027-30		R213		1/16W 27k ohm	R751		1/16W 1k ohm
וטוטו	001-0028-04	IVIAUUUZ-L	11213	000-2101-10	1/ 10 VV Z/ K UIIIII	17731	000-1021-10	1/ TOVV TR OTHER

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R800	033-4731-15	1/16W 47k ohm	R809	033-1031-15	1/16W 10k ohm	R920	033-1041-15	1/16W 100k ohm
R801	033-5611-15	1/16W 560 ohm	R810	033-1031-15	1/16W 10k ohm			(41K)
R802	033-1031-15	1/16W 10k ohm	R811	033-1031-15	1/16W 10k ohm	R921	033-0000-05	1/16W 0 ohm(38T
R803	033-1041-15	1/16W 100k ohm	R820	116-3031-15	1/8W 30k ohm	R922	033-0000-05	1/16W 0 ohm(38T
R804	033-1031-15	1/16W 10k ohm	R821	116-3031-15	1/8W 30k ohm	R923	033-1041-15	1/16W 100k ohm
R805	033-1031-15	1/16W 10k ohm	R900	033-0000-05	1/16W 0 ohm(38T)			(41K)
R806	033-1021-15	1/16W 1k ohm	R901	033-0000-05	1/16W 0 ohm(38T)	T101	009-0679-00	CHOCK
R807	033-1021-15	1/16W 1k ohm	R910	033-1041-15	1/16W 100k ohm	X501	060-1505-50	10MHz
R808	033-1031-15	1/16W 10k ohm						

#### Escutcheon PWB section(B2)

LSCULCI	escutcheon PWB section(B2)							
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C402	168-1045-56	0.1 uF	Q403	192-2712-00	2SC2712	R422	033-1031-15	1/16W 10k ohm
CCT2	050-0145-52	1/16W 1k ohm x4	Q404	192-2712-00	2SC2712	R423	033-1031-15	1/16W 10k ohm
D401	001-7045-90	CL-165D/FG-D	Q406	192-2712-00	2SC2712	R424	033-1031-15	1/16W 10k ohm
D402	001-7043-90	CL-170FG-CD	R401	119-2211-15	1/16W 220 ohm	R425	033-1031-15	1/16W 10k ohm
D403	001-7043-90	CL-170FG-CD	R402	119-2211-15	1/16W 220 ohm	R426	033-1031-15	1/16W 10k ohm
D404	001-7045-90	CL-165D/FG-D	R404	119-2211-15	1/16W 220 ohm	R428	119-2211-15	1/16W 220 ohm
D405	001-7045-90	CL-165D/FG-D	R406	119-2211-15	1/16W 220 ohm	R429	119-1021-15	1/16W 1k ohm
D406	001-7045-90	CL-165D/FG-D	R407	119-2211-15	1/16W 220 ohm	R430	119-1021-15	1/16W 1k ohm
D407	001-7045-90	CL-165D/FG-D	R408	119-2211-15	1/16W 220 ohm	S401	013-6302-50	SKQMAL
D408	001-7045-90	CL-165D/FG-D	R409	119-2211-15	1/16W 220 ohm	S402	013-6302-50	SKQMAL
D411	001-0655-90	1SS294	R410	119-2211-15	1/16W 220 ohm	S403	013-6302-50	SKQMAL
D412	001-0655-90	1SS294	R411	119-2211-15	1/16W 220 ohm	S404	013-6302-50	SKQMAL
IC401	051-6617-08	NJU3715G-TE2	R412	119-2211-15	1/16W 220 ohm	S405	013-6302-50	SKQMAL
J401	074-1239-76	26P	R413	119-2211-15	1/16W 220 ohm	S406	013-6302-50	SKQMAL
PL401	017-0433-69	14V40mA	R414	119-2211-15	1/16W 220 ohm	S407	013-6302-50	SKQMAL
PL402	017-0433-69	14V40mA	R415	119-2211-15	1/16W 220 ohm	S408	013-7415-50	SPVG110400
PL403	017-0433-69	14V40mA	R416	119-2211-15	1/16W 220 ohm	X401	060-0297-00	PKM13EPP-4002
PL404	017-0433-69	14V40mA	R419	033-1031-15	1/16W 10k ohm			(38T)
Q401	192-2712-00	2SC2712	R420	033-1031-15	1/16W 10k ohm	X401	060-8045-00	PKLCS1212E4001-R
Q402	192-2712-00	2SC2712	R421	033-1031-15	1/16W 10k ohm			(41K)

# CD PWB section(B3) : CD changer mechanism

	DB 1 VB Scotton(Bo) : OB sharige							
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
	046-1022-58	1000pF	C40	045-1211-50	120pF	R16	033-5631-15	1/16W 56k ohm
C3	168-1042-78	16V 0.1 uF	C41	045-5601-50	56pF	R17	033-1031-15	1/16W 10k ohm
C4	042-0636-54	4V220 uF	C42	168-1042-78	16V 0.1 uF	R18	033-1031-15	1/16W 10k ohm
C5	168-1042-78	16V 0.1 uF	C43	042-0636-52	4V47 uF	R19	033-5621-15	1/16W 5.6k ohm
C6	046-1032-78	0.01 uF	C50	168-1042-78	16V 0.1 uF	R20	033-6831-15	1/16W 68k ohm
C7	168-1042-78	16V 0.1 uF	C51	168-1042-78	16V 0.1 uF	R21	033-5621-15	1/16W 5.6k ohm
C8	178-4742-78	0.47 uF	C60	168-5612-55	560pF	R22	033-1031-15	1/16W 10k ohm
C9	178-2242-78	0.22 uF	D1	001-0367-91	1SS226	R23	033-1031-15	1/16W 10k ohm
C10	168-1042-78	16V 0.1 uF	IC1	051-6365-00	MN662785TBUC	R24	033-4731-15	1/16W 47k ohm
C11	168-1042-78	16V 0.1 uF	IC2	051-9318-00	MSM51V17400D-	R25	033-3931-15	1/16W 39k ohm
C12	168-1042-78	16V 0.1 uF			60TS-K	R26	033-6831-15	1/16W 68k ohm
C13	046-2232-78	0.022 uF	IC2	051-9318-51	K4E160412C-FC60	R27	033-6831-15	1/16W 68k ohm
C14	168-5612-55	560pF	IC3	051-6060-08	BD7961FM-E2	R28	033-1031-15	1/16W 10k ohm
C15	168-1042-78	16V 0.1 uF	IC4	051-5711-90	AN8882SB-E1	R29	033-2201-15	1/16W 22 ohm
C16	046-2212-58	220pF	J1	074-1189-95	45P	R31	033-8211-15	1/16W 820 ohm
C17	046-2212-58	220pF	J4	074-1138-56	6P	R32	033-5631-15	1/16W 56k ohm
C18	168-1222-55	1200pF	J5	074-1201-65	15P	R33	033-6831-15	1/16W 68k ohm
C19	046-3322-58	3300pF	J6	074-1059-76	26P	R34	033-3331-15	1/16W 33k ohm
C20	168-3932-78	0.039 uF	L2	010-3050-93	10 uH	R35	033-6831-15	1/16W 68k ohm
C21	168-3932-78	0.039 uF	L2	010-2155-93	10 uH	R38	033-3931-15	1/16W 39k ohm
C22	042-0416-52	10V10 uF TAN	Q2	131-1188-00	2SB1188	R39	033-1831-15	1/16W 18k ohm
C25	178-1052-78	1 uF	Q3	131-1188-00	2SB1188	R40	117-1001-15	1/10W 10 ohm
C26	042-0472-91	16V47 uF	R2	033-1041-15	1/16W 100k ohm	R41	033-6821-15	1/16W 6.8k ohm
C27	178-3342-78	0.33 uF	R4	033-3311-15	1/16W 330 ohm	R42	033-6821-15	1/16W 6.8k ohm
C29	168-2732-55	16V 0.027 uF	R5	033-1041-15	1/16W 100k ohm	R43	033-1241-15	1/16W 120k ohm
C30	042-0416-58	4V100 uF	R6	033-3931-15	1/16W 39k ohm	R44		1/16W 68k ohm
C31	042-0636-52	4V47 uF	R7	033-1041-15	1/16W 100k ohm	R45	116-4711-15	1/8W 470 ohm
C32	046-1022-58	1000pF	R8	033-5611-15	1/16W 560 ohm	R46	117-1811-15	1/10W 180 ohm
C33	046-3322-58	3300pF	R9	033-5611-15	1/16W 560 ohm	R47	116-4711-15	1/8W 470 ohm
C34	168-2732-55	16V 0.027 uF	R10	033-1011-15	1/16W 100 ohm	R48		1/16W 10k ohm
C35	178-2742-78	0.27 uF	R11	033-3911-15	1/16W 390 ohm	R49	033-1011-15	1/16W 100 ohm
C36	178-1052-78	1 uF	R12		1/16W 2.2k ohm	R60		1/16W 10k ohm
C37	168-1042-78	16V 0.1 uF	R13	033-6831-15	1/16W 68k ohm	TM1	073-0768-90	TERMIMAL
C38	042-0472-91	16V47 uF	R14	033-5621-15	1/16W 5.6k ohm	X1	060-1527-90	33.8688MHz
C39	042-0636-50	6.3V100 uF	R15	033-1021-15	1/16W 1k ohm			

#### Sensor PWB section(B4): CD changer mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
PT3	060-0252-01	PT4850F	PT5	060-0252-01	PT4850F	S1	013-7414-50	SPVG22
PT4	060-0252-01	PT4850F	PT6	060-0252-01	PT4850F			

#### PIM-FPC section(B5): CD changer mechanism

REF No.	PART No.	DESCRIPTION
IC5	051-5806-02	GPIS95

#### Driver PWB section(B6): CD changer mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	168-1045-56	0.1 uF	J1	074-1239-76	26P	R3	032-0104-59	1/4W 2.2 ohm
C2	163-1073-35	16V100 uF	J2	074-1100-59	9P	S1	013-7412-50	SPVG21
D1	001-0529-29	MA8051-M	R1	033-1021-15	1/16W 1k ohm			
IC1	051-6044-18	BA6920FP-Y	R2	032-0104-59	1/4W 2.2 ohm			

#### PIV-FPC section(B7) : CD changer mechanism

REF No.	PART No.	DESCRIPTION
IC6	051-5806-01	GPIS93

#### LED-L-PWB section(B8): CD changer mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
LED3	001-7042-00	GL4800	LED4	001-7042-00	GL4800

#### LED-R-PWB section(B9): CD changer mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
LED5	001-7042-00	GL4800	LED6	001-7042-00	GL4800

#### L-Motor-FPC section(B10) : CD changer mechanism

REF No.	PART No.	DESCRIPTION
M1	SMA-186-100	LOADING

### M/S-FPC section(B11) : CD changer mechanism

REF No. PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
M2 SMA-185-100	SPINDLE	М3	SMA-184-100	SLED	S2	013-7414-50	SPVG22

#### **EXPLODED VIEW/PARTS LIST**

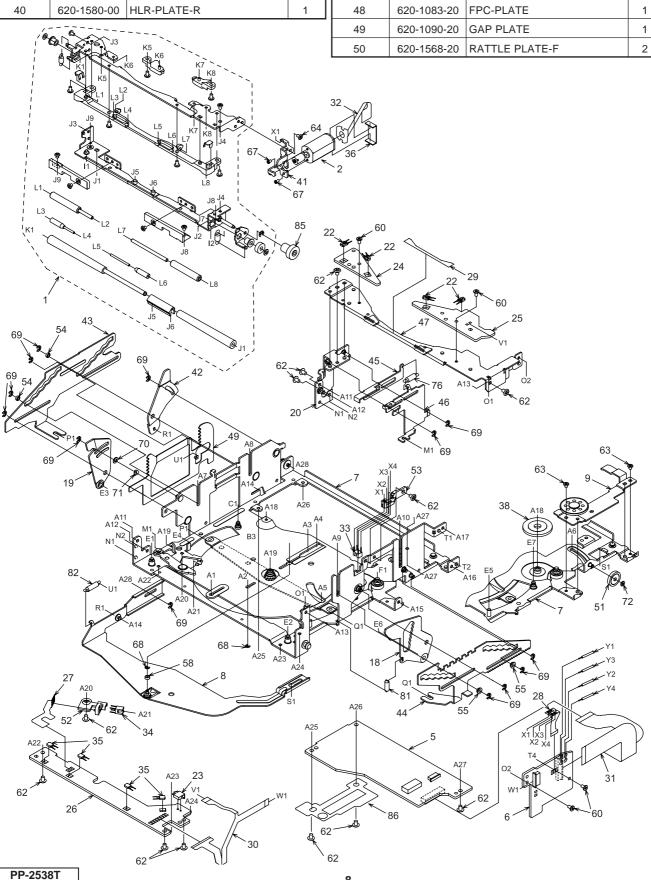
#### CD changer mechanism section : Main chassis

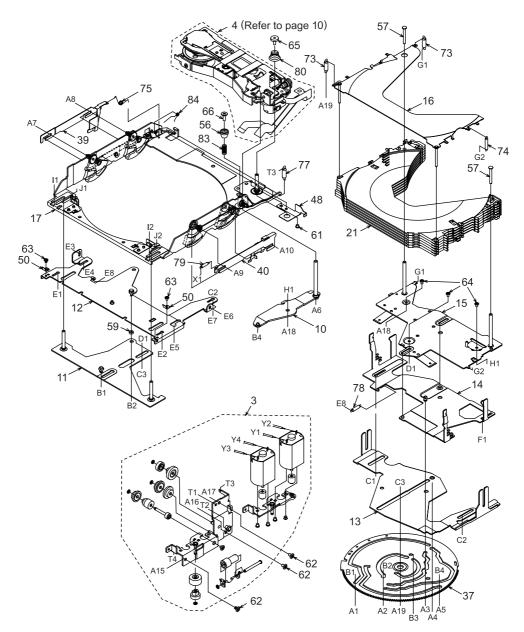
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-521-100	LOADING UNIT (WITHOUT MOTOR)	1	17	966-0611-05	DR-BASE-P-ASSY	1
	0144 400 400	,		18	966-0615-01	LOCK-L-RF-ASSY	1
2		LOADING MOTOR ASSY	1	19	966-0616-20	LOCK-L-LF-ASSY	1
3	HBS-512-100	MOTOR PLATE SUB ASSY	1	20	966-0618-21	EJECT-B-ASSY	1
4	HBS-513-103	DRIVE UNIT	1	21	966-0624-23	DISC-HOL-ASSY	1
5	039-2233-00	CD PWB	1	<u> </u>			+ -
		(WITHOUT COMPONENT)		22	001-7042-00	DIODE (GL4800)	4
6	039-2242-00	DRIVER PWB (WITHOUT COMPONENT)	1	23	013-7414-50	DETECTOR SWITCH	1
7	966-0597-23	CHASSIS ASSY	1	24	039-1954-00	LED-L-PWB (WITHOUT COMPONENT)	1
8	966-0600-21	LOCK-P-RE-ASSY	1	25	039-1955-00	LED-R-PWB (WITHOUT COMPONENT)	1
9	966-0601-21	M-GEAR-P-ASSY	1		000 1050 00	,	
10	966-0602-23	DR-LINK-ASSY	1	26	039-1956-00	SENSOR PWB (WITHOUT COMPONENT)	1
11	966-0603-20	MODE-P-ASSY	1	27	039-2009-00	PIM FPC	1
12	966-0604-22	LOCK-PF-ASSY	1	28	039-2010-00	RIV-FOC	1
13	966-0605-20	SHIFT-P-ASSY	1	29	039-2011-00	LED-FPC	1
14	966-0606-23	HLC-PLATE-ASSY	1	30	039-2012-00	SENSOR-FPC	1
15	966-0607-24	COV-OLATE-ASSY	1	31	039-2013-00	MOS-FPC	1
16	966-0610-06	TOP-PLATE-ASSY	1	32	039-2014-00	L-MOTOR-FPC (WITHOUT COMPONENT)	1

PP-2538T PN-2541K

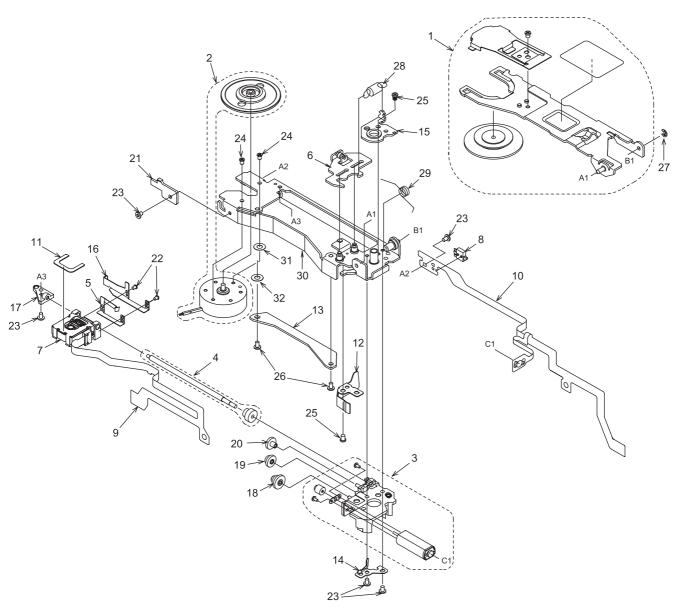
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION
33	051-5806-01	IC (GPIS93)	1	41	620-1576-20	LO-MOTOR-PLT
34	051-5806-02	IC (GPIS95)	1	42	620-1066-20	LOCK LINK-LR
35	060-0252-01	PHOTO-TR	4	43	620-1067-01	SLIDE PLATE-L
36	347-6657-01	LO-COVER SHEET	1	44	620-1068-22	SLIDE PLATE-R
37	620-1041-23	GEAR PLATE	1	45	620-1071-21	EJECT ARM
38	620-1042-20	M-GEAR-H	1	46	620-1072-20	EJECT PLATE
39	620-1056-01	HLR-PLATE-L	1	47	620-1577-00	FRONT PLATE
40	620-1580-00	HLR-PLATE-R	1	48	620-1083-20	FPC-PLATE
	,			49	620-1090-20	GAP PLATE
Í	J3	K5		50	620-1568-20	RATTLE PLATE-F
       	K1 K5 L3	KG KT K8		32 \ P		

Q'TY



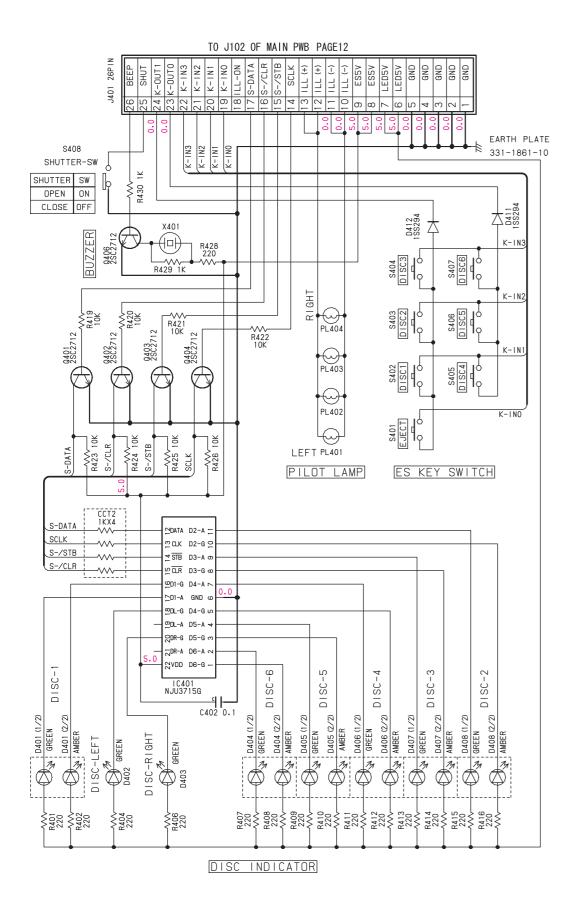


NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
51	621-0640-20	V-GEAR-G	1	69	743-1500-20	E-RING	13
52	621-0641-21	PI-HOLDER-M	1	70	746-0624-00	WASHER	1
53	621-0656-21	PI-HOLDER-V	1	71	746-0712-03	WASHER	1
54	622-1622-00	SL-G-ROLLER	2	72	746-0761-00	WASHER	1
55	622-1623-00	SL-G-ROLLER-R	2	73	750-3478-01	TOP-P-SP-L	2
56	622-1648-02	DU-STP-SLEEVE	1	74	750-3479-01	TOP-P-SP-R	1
57	622-1650-02	COV-PLATE PIN-B	2	75	750-3480-01	DR-LOCK-SP	1
58	622-1651-00	LOCK-RE-ROLLER	1	76	750-3483-00	EJECT-A-SPRING	1
59	622-1652-00	LOCK-PF-ROLLER	1	77	750-3484-01	DR-BASE-SPRING	1
60	716-1866-00	SCREW(M1.7 x3)	4	78	750-3485-01	TENSION-SP-L	1
61	716-1873-00	SCREW(M2 x1.6)	1	79	750-3486-01	LO-TENSION-SP	1
62	716-3449-00	SCREW(M2 x3)	15	80	750-3489-00	DRIVE-P-SPRING	1
63	716-3450-00	SCREW(M1.7 x2)	4	81	750-3496-00	GAP-P-SPRING R	1
64	716-3451-00	SCREW(M1.7 x2.5)	4	82	750-3497-00	GAP-P-SPRING L	1
65	716-3459-00	SCREW(M1.7 x5)	1	83	750-6711-01	DU-STP-SPRING	1
66	716-3466-02	SCREW	1	84	750-6712-01	DR-LOCK-SP-B	1
67	738-1422-11	PRECISION SCREW	2	85	621-0651-22	LOAD GEAR-A	1
68	743-1200-20	E-RING	2	86	347-6974-00	FPC COVER	1



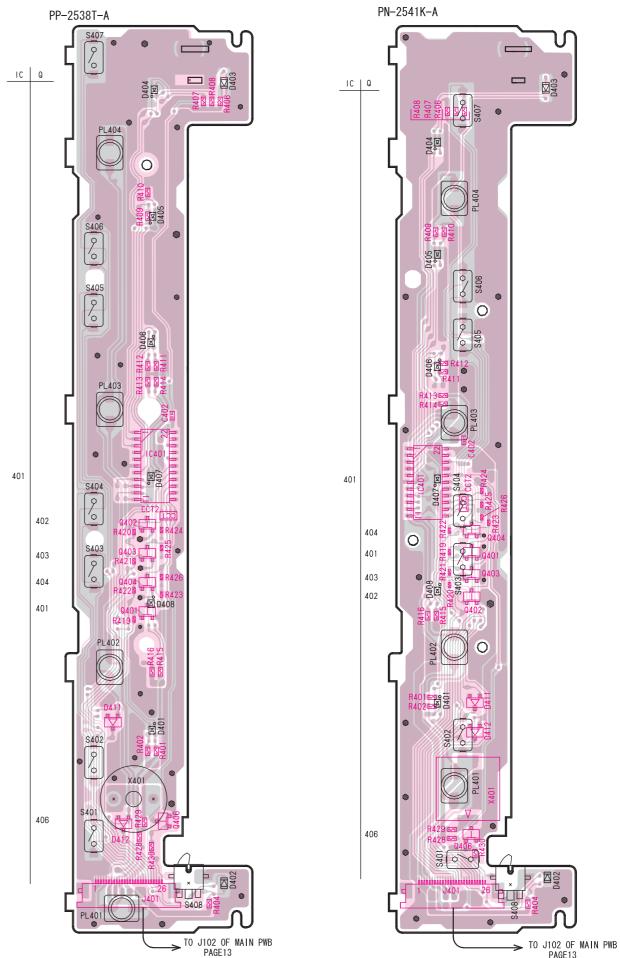
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-514-100	CLAMPER SUB ASSY	1	17	621-0670-20	LS-HOLDER-L	1
2	SMA-185-100	SPINDLE MOTOR ASSY	1	18	621-0673-20	D-GEAR A	1
3	SMA-184-100	SLED MOTOR ASSY	1	19	621-0674-20	D-GEAR B	1
4	HBS-515-101	LS-ASSY	1	20	621-0675-20	D-GEAR C	1
5	620-1587-00	SH-SP-PLT	1	21	621-0683-21	DU-STOPPER	1
6	966-0622-22	D-SHIFT-P-ASSY	1	22	716-3460-00	SCREW(M1.4 x 1.8)	2
7	969-0009-00	PICK UP-ASSY	1	23	716-3470-00	SCREW(M1.7 x 3)	5
8	013-7414-50	DETECT SWITCH	1	24	738-1722-17	PRECISION SCREW	2
9	039-2015-01	P/U-FPC	1	25	738-2025-17	PRECISION SCREW	2
10	039-2016-01	M/S-FPC	1	26	716-3474-00	SCREW(M1.7 x 3)	2
11	347-6632-00	PU-SHEET	1	27	743-1500-20	E-RING	1
12	620-1078-20	PUSH PLATE	1	28	750-3487-00	SHIFT-P-SPRING	1
13	620-1080-21	PU-GUIDE PLATE	1	29	750-3504-00	CLAMP-A-SPRING	1
14	620-1081-20	SCREW PUSH-PLT	1	30	966-0619-24	DRIVE PLT-ASSY	1
15	620-1082-22	SPRING PLATE	1	31	745-0807-00	WASHER	1
16	620-1588-20	SCREW-HOL-PLT	1	32	745-0808-00	WASHER	1

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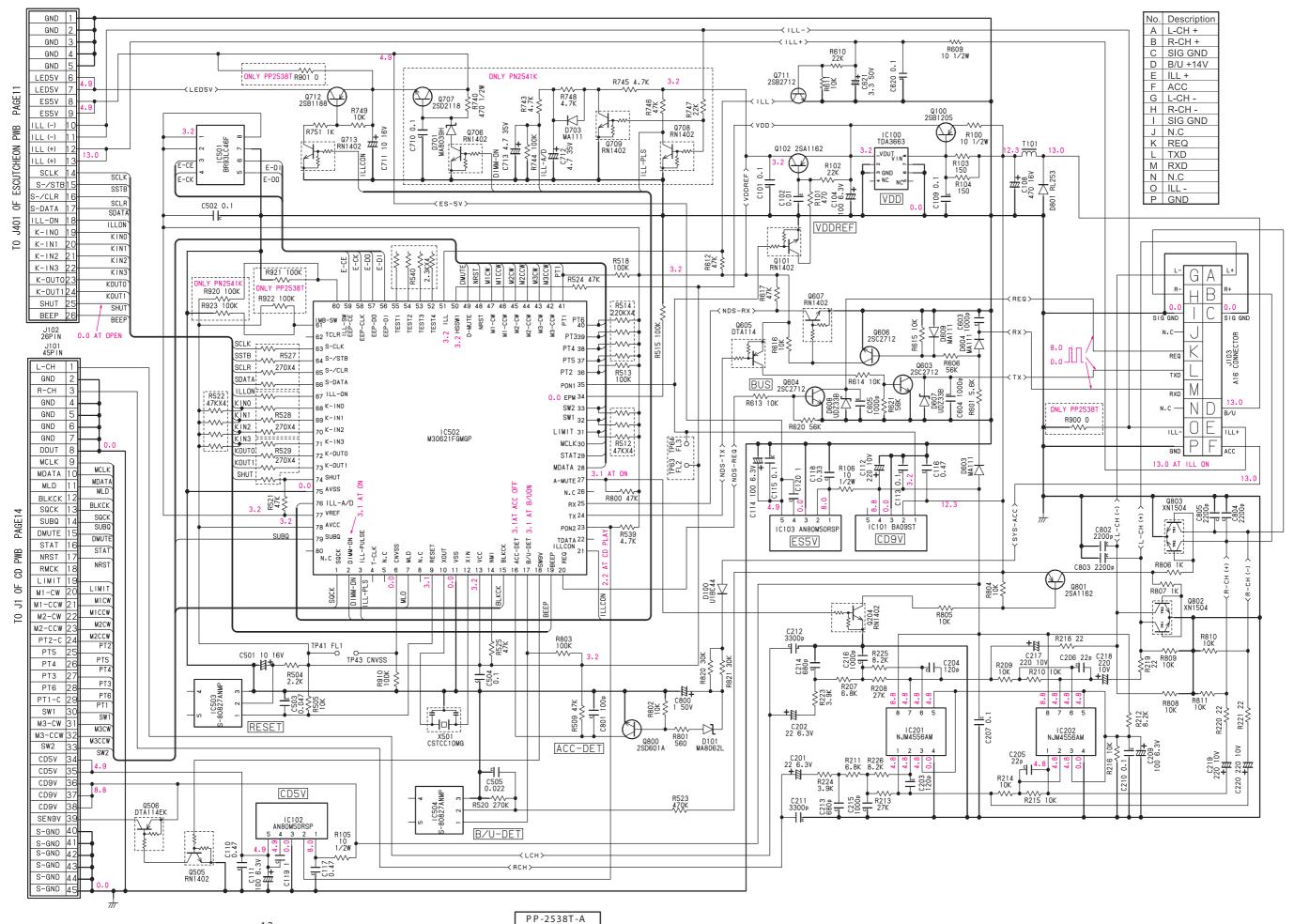
#### PRINTED WIRING BOARD

Escutcheon PWB(B2) section



#### CURCUIT DIAGRAM

Main PWB(B1) section



PN-2541K-A

#### PRINTED WIRING BOARD

